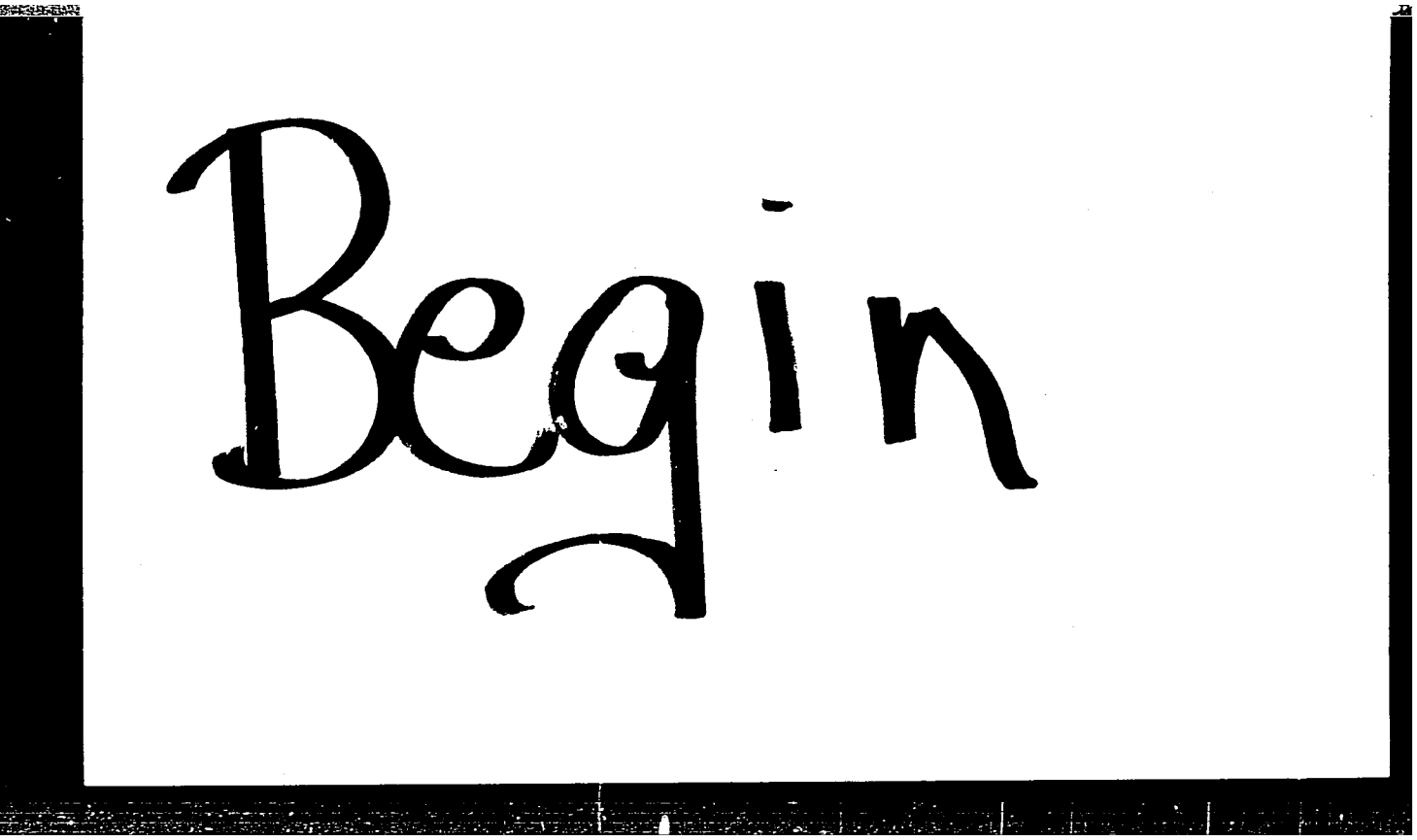
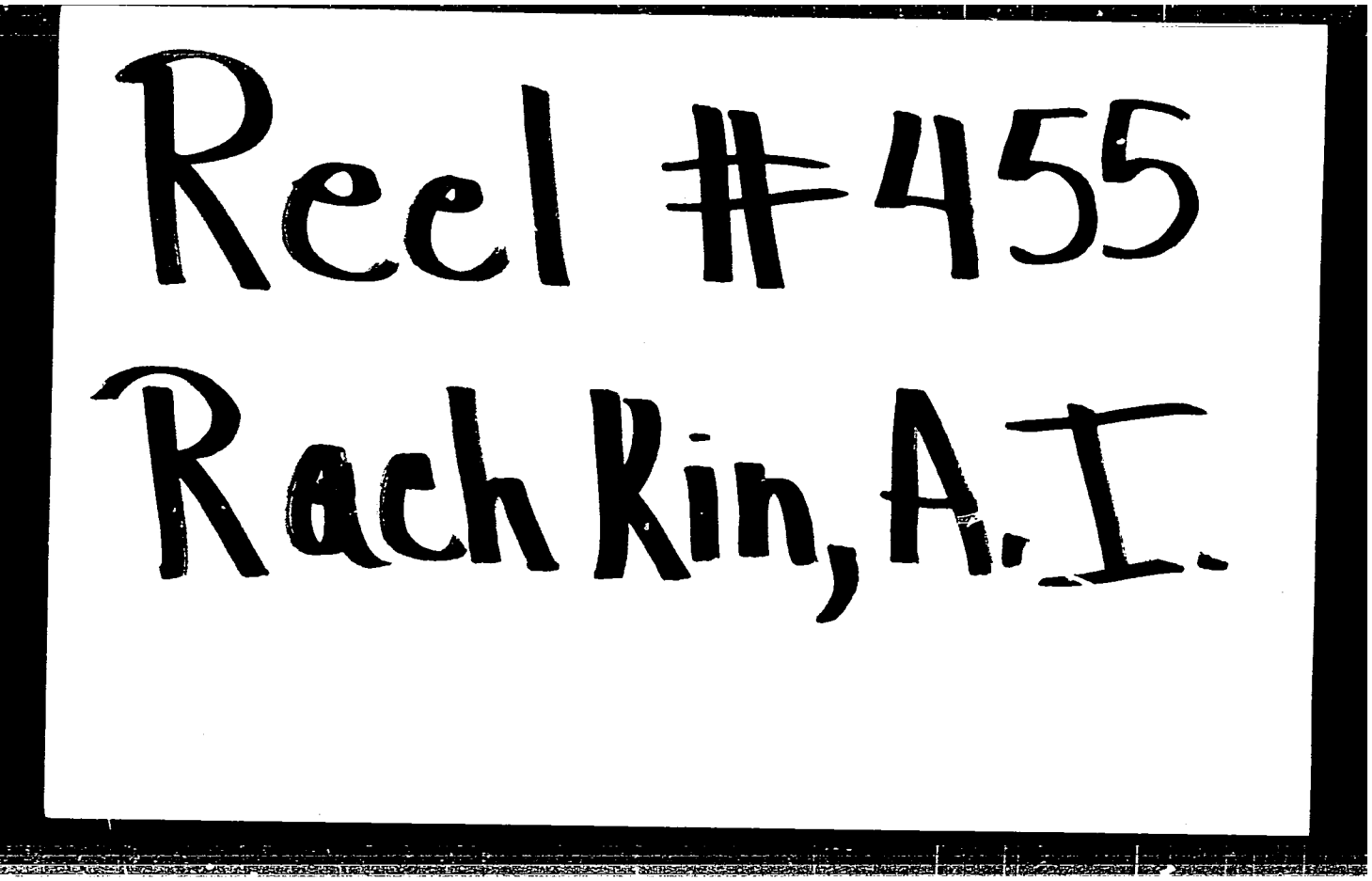




GORBENKO, L.A.; RACHKIN, A.I.

Electric parameters of KOBT-4 and KOBT-4 logging cables. Razved. i prom. geofiz. no.48:103-107 '63 (MIRA 18:1)

VODOLAZSKIY, N.G.; RACHKO, A.A., glavnyy bukhgalter; NAZARUK, Ye.S.

On a business accounting basis. Put' i put.khoz. no.1:14-16 Ja '59. (MIRA 12:2)

1. Nachal'nik Brestskoy distantsii puti Belorusskoy dorogi (for Vodolazskiy) 2. Starshiy inzh. Brestskoy distantsii puti Belorusskoy dorogi (for Nazaruk).
(Railroads--Track) (Railroads--Cost of operation)

RACHKOV, A.A.; MIKHEYKIN, V.Ya., red.

[Grigorii Vital'yevich Khlopin; his life and work] Grigoriy Vital'evich Khlopin; zhizn' i deiatel'nost'. Leningrad, Meditsina, 1965. 111 p. (MIRA 18:10)

RACHKO, B. A.

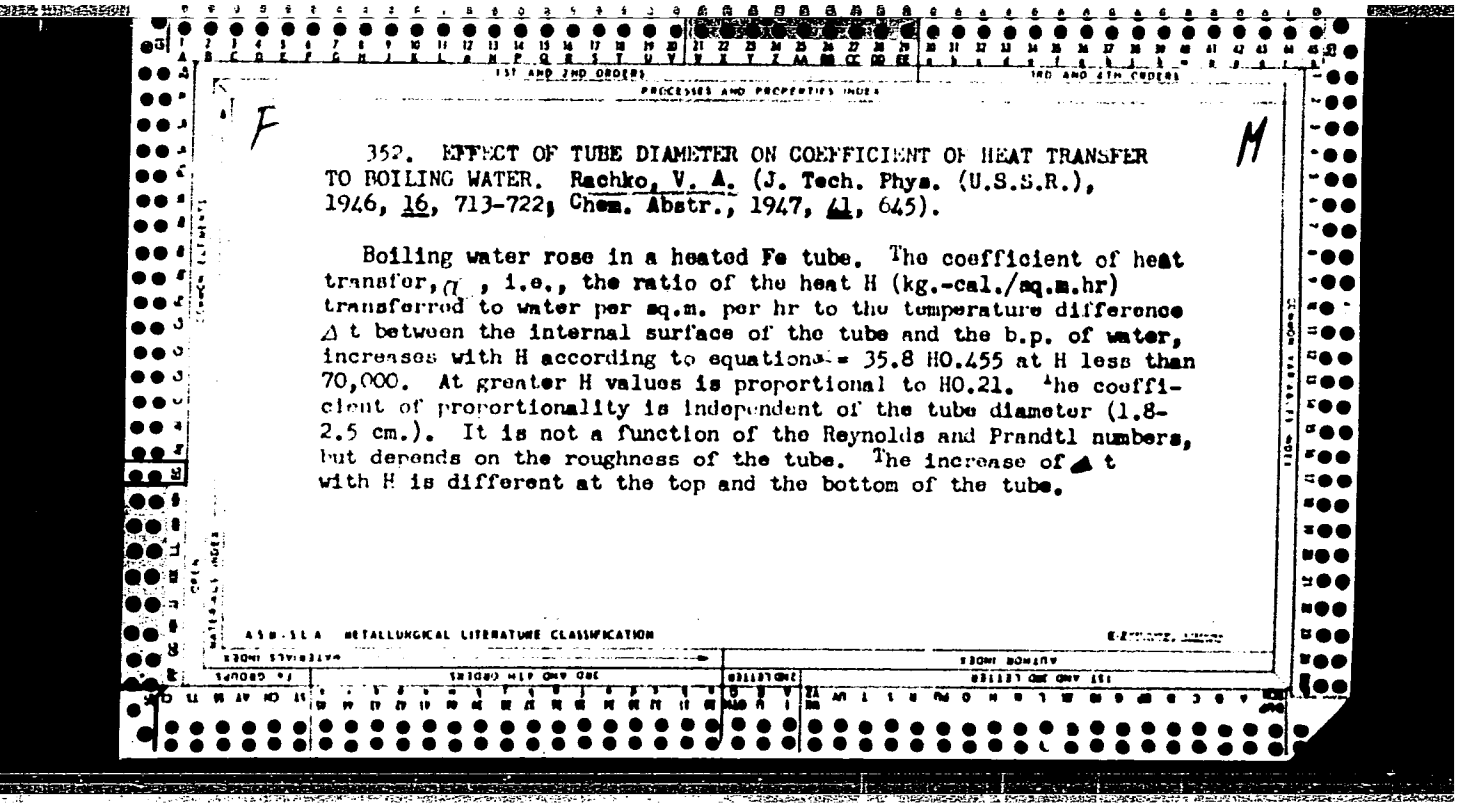
"Investigation of the Influence of the Velocity of Circulation on the Coefficient of the Thermal Exchange of Boiling Water," ibid., No. 9, 1946. Mbr., Leningrad Sci. Research Boiler and Turbine Inst., Leningrad, -1946-.

RACHKO, B.F.

31. TEST RESULTS FOR EXPERIMENTAL MODEL DONBASS-7 COAL CUTTER-LOADER. Rachko, B.F. (Ugol (Coal, Moscow), Feb. 1957, 32, 33). The new model is intended for gently dipping seams, 2.2 to 2.7 m thick, of coals of above average hardness and sticky coals, such as will allow an unsupported area of 10 sq.m. There are two cutting portions with separate motors. The bottom portion has horizontal cutter bars with disc cutters and a cutting chain which cuts out a complete circuit. The top portion has a horizontal cutter bar which can be swung about a vertical axis. The whole top portion can be raised or lowered hydraulically during operation to suit the thickness of seam. (L).

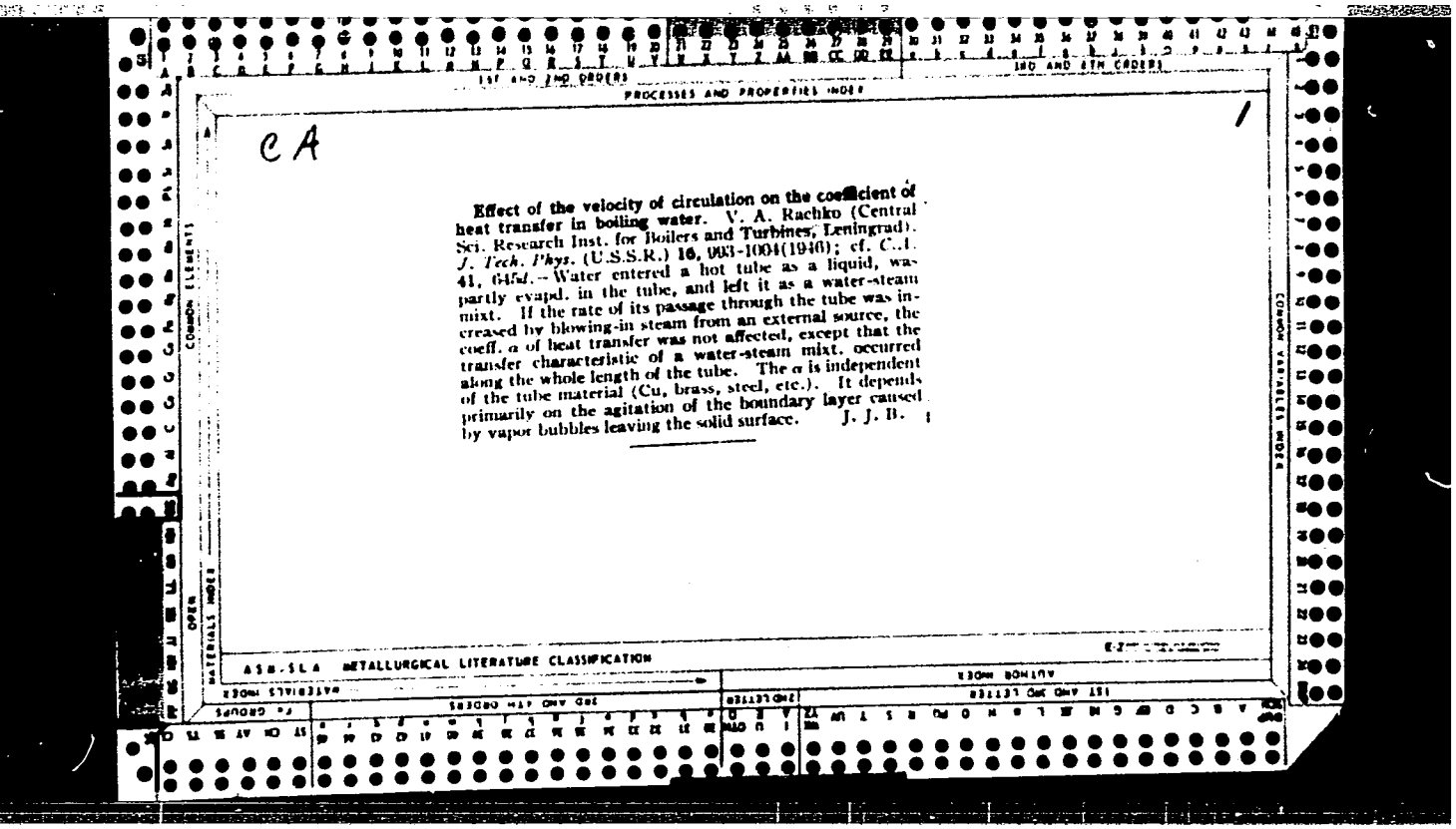
LUVISHIS, L.A.; RACHKO, T.S.

Methods for determining the wear resistance of textile fabrics. Standartizatsii 24 no.9:37-38 S '60. (MIRA 13:9)
(Textile fabrics--Testing)



352. EFFECT OF TUBE DIAMETER ON COEFFICIENT OF HEAT TRANSFER TO BOILING WATER. Rachko, V. A. (J. Tech. Phys. (U.S.S.R.), 1946, 16, 713-722; Chem. Abstr., 1947, 41, 645).

Boiling water rose in a heated Fe tube. The coefficient of heat transfer, α, i.e., the ratio of the heat H (kg.-cal./sq.m.hr) transferred to water per sq.m. per hr to the temperature difference Δ t between the internal surface of the tube and the b.p. of water, increases with H according to equation $\alpha = 35.8\ H^{0.455}$ at H less than 70,000. At greater H values α is proportional to $H^{0.21}$. The coefficient of proportionality is independent of the tube diameter (1.8-2.5 cm.). It is not a function of the Reynolds and Prandtl numbers, but depends on the roughness of the tube. The increase of α with Δ t with H is different at the top and the bottom of the tube.



CA

1

Effect of the velocity of circulation on the coefficient of heat transfer in boiling water. V. A. Rachko (Central Sci. Research Inst. for Boilers and Turbines, Leningrad). *J. Tech. Phys.* (U.S.S.R.) **16**, 993-1004(1946); cf. C.A. 41, 645d.—Water entered a hot tube as a liquid, was partly evapd. in the tube, and left it as a water-steam mixt. If the rate of its passage through the tube was increased by blowing-in steam from an external source, the coeff. α of heat transfer was not affected, except that the transfer characteristic of a water-steam mixt. occurred along the whole length of the tube. The α is independent of the tube material (Cu, brass, steel, etc.). It depends primarily on the agitation of the boundary layer caused by vapor bubbles leaving the solid surface. J. J. B.

RACHKO, V. A.

USSR/Atomic and Molecular Physics - Heat, D-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34401

Author: Rachko, V. A.

Institution: None

Title: Investigation of the Process of Condensation of Water Vapor from a Steam-Air Mixture in Vacuum

Original Periodical: Zh. tekhn. fiziki, 1956, 26, No 3, 585-601

Abstract: An investigation was carried out with a bundle of horizontal Cu-Ni tubes of 16 mm outside diameter with an active length of 1,500 mm. The effect of the following factors on the heat exchange and mass exchange in the condenser were determined: velocity of steam-air mixture (variation of linear velocity ranging from 4 to 100 m/sec), partial pressure of air (one to 42%), thermal gradient of the cooling surface (5,000-96,000 kcal/sq m hr) and absolute pressure in the condenser (vacuum of 0.03-0.2 atm). A criterial equation is given to describe the process of condensation of the steam in a steam-air mixture that is moving and that is continuously varying its composition under the conditions prevailing in the bundle of tubes.

RACHKO, V. A.

USSR/Atomic and Molecular Physics - Heat, D-4

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34402

Author: Rachko, V. A.

Institution: None

Title: Experimental Investigation of the Effect of Velocity in Composition of Steam-Air Mixture and Degree of Vacuum on the Heat Exchange Process During the Condensation of Water Vapor

Original Periodical: Zh. tekhn. fiziki, 1956, 26, No 3, 602-617

Abstract: Based on the author's experiments (abstract 34401), quantitative relationships are given for the coefficient of heat transfer as functions of each factor that determines the process. Equations are given for the heat transfer coefficient for high (absolute pressure p less than 30 mm mercury) and reduced ($p > 70$ mm mercury) vacuum. The features of the vapor-condensation process under the conditions of motion of the mixture are noted. Many practical recommendations are made.

1 of 1

RACHKOV A.

Experimental study of the influence of velocity, the composition of a steam-air mixture, and vacuum on the process of heat exchange during the condensation of steam. V. A. Rachkov. *Soviet Phys. Tech. Phys.* 1, 579–93(1957)(English translation).—See *C.A.*: 50, 13524*f*. B. M. R.

AUTHOR: Rachko, V.A., Candidate of Technical Sciences. 333

TITLE: Hydraulic tightness of condensers. (Gidravlicheskaya plotnost kondensatorov.)

PERIODICAL: "Energomashinostroenie", (Power Machinery Construction), 1957, No. 4, pp. 13 - 18, (U.S.S.R.)

ABSTRACT: Analysis of the possible causes of the losses of hydraulic tightness of condensers, describing the service characteristics of six condensers of three power stations, indicating the influence of the operating conditions on the quality of the condensate, pointing out a number of design features aimed at improving the hydraulic tightness of condensers. Existing Soviet specifications allow water hardnesses of 5 µg equ/litre for direct flow boilers, 10 µg equ/litre for drum type boilers. The specified maximum permissible leakage of cooling water into the condenser is: 0.001 to 0.004% in the case of fresh cooling water, and 0.0001 to 0.00001% in the case of hard river and for sea water, the percentage being based on the flow rate of the condensate. Analysis of failures indicates that the stability of condensers against disturbance of the hydraulic density can be achieved by improving the quality of manufacture, assembly and erection of the condensers. Particularly, the equipment used for rolling-in the tubes should be fitted with automatic control of the torque at the rolling spindle and the hydraulic test of the condenser should,

in all cases, be effected under pressure and not simply by water under atmospheric pressure; the rolling of the tubes into the headers must be effected for each condenser type strictly in accordance with the sequence determined experimentally. In power stations, measures must be put into operation to eliminate and soften thermal shocks in the condenser, for instance, by reducing the speed of the water in the first pass and increasing its speed in the second pass, since, in the first pass, the factor controlling the thermal process is the steam-water mixture, whilst in the second pass, it is water and not steam which controls the process. 5 graphs.

AUTHOR: Rachko, V. A.

57-28-6-18/34

TITLE: ~~Investigation of the~~ Condensation Process of Mobile Pure Steam on Tube Bundles (Issledovaniye protsessa kondensatsii dvizhushchegosya chistogo para na trubnykh puchkakh)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 6, pp. 1237 - 1250 (USSR)

ABSTRACT: In the present paper generalizing laws, as well as concrete formulae of the condensation process of mobile pure steam on bundles of tubes with different geometrical characteristics are explained. The heat exchange intensities on different bundles are compared with one another. For the first time the equation of the mass-exchange-and heat-exchange processes in the condensation of the flowing steam-gas mixture and of steam on the bundles of tubes was set up:
For mass-exchange:

$$Nu' \frac{p^{pot.}_{p_o}}{p^{st.}_{p}} = A\, Re^{f_1}_{st}(\psi,\pi)\, Gz^{f_2}(\psi\pi)$$

Card 1/4

For heat-exchange:

$$Nu = B\, Re_{st.}^{f'(\psi)}\, Gz^{f''(\psi)}.$$

It was shown that the exponents of the determining criteria are criterion functions of the bundle density ψ and of the steam quality π. It was shown, that the exponent in the criterion by Gretts Gz for the process of heat exchange must be negative, while for the process of mass exchange it must be and is positive. It was further shown that all exponents of characterizing criteria change in accordance with the change of the criterion of the density of the tube bundle ψ. A dense and a thin bundle were compared in order to show under what conditions one must be preferred to the other. It was also shown that in the case of dense bundles ($\psi > 0,5$) the stabilization of the process of heat exchange begins in the depth of the bundle of tubes and that stabilization of mass exchange begins practically from the first row of bundles onwards. In the case of thin bundles ($\psi < 0,45$) the character of the stabi-

lization of these processes is reversed. Formulae for the condensation of the flowing steam were given for bundles of tubes that can be used:

For the bundle $\psi = 0{,}436$

$$Nu = (134 \div 137)\, Re_{st.}^{0.22}\, Gz^{-0.45}$$

For the bundle $\psi = 0{,}532$

$$Nu = A_N Re_{st.}^{0.125}\, Gz^{-0.256}$$

for a single vertical series

$$Nu = 350N^{-0.325} Re_{st.}^{0.1}\, Gz^{-0.155}$$

Formulae of heat transfer coefficients during the condensation of the steam flowing on the bundles of tubes were given:

For the bundle $\psi = 0.436$

Investigation of the Condensation Process of Mobile Pure Steam on Tube Bundles 57-28-6-18/34

$$\alpha = 80 \frac{1.45}{d^{1.23}} \left| \frac{w_{p.}}{\nu_{p.}} \right|^{0.22} \left| \frac{H}{r} \right|^{-0.45}$$

For the bundle $\psi = 0.532$

$$\alpha = 200 \frac{1.256}{1.131} \left| \frac{w_{p.}}{\nu_{p.}} \right|^{0.125} \left| \frac{H}{r} \right|^{-0.256}$$

There are 12 figures and 3 references, 2 of which are Soviet.

ASSOCIATION: Kotloturbinnyy institut im. I.I. Polzunova, Leningrad (Leningrad, Boiler Turbine Institute imeni I. I. Polzunov)

SUBMITTED: July 11, 1957

1. Steam—Condensation 2. Heat exchangers—Performance
3. Heat transfer—Mathematical analysis

Card 4/4

57-28-6-19/34

AUTHOR: Rachko, V. A.

TITLE: The Investigation of the Influence Exercised by Gas Parameters and the Depth of the Tube Bundle on the Condensation Process of Moving Steam (Issledovaniye vliyaniya parametrov para i glubiny trubnogo puchka na protsess kondensatsii dvizhushchegosya chistogo para)

PERIODICAL: Zhurnal Tekhnicheskoy Fiziki, 1958, Vol. 28, Nr 6, pp. 1251 - 1260 (USSR)

ABSTRACT: In this paper a generalizing formula for the condensation process of steam and of the steam-air mixture on tube bundles in parameter form, as well as concrete formulae for the calculation of the heat transfer coefficient for different tube bundles are suggested. A law was found for the process of the condensation of steam and of the steam-gas mixture on tube bundles

$$\alpha = CA_t(\gamma_{sm.} w^2_{sm.}) f_1 (\psi,\pi) \pi f_2 (\psi,\pi)_H{}^k .$$

It was shown that the exponents in the characterizing parameters are functions of the criterion of the density of the tube

Card 1/3

bundle ψ and of the criterion of the steam quality π. It was further shown that in all cases of the condensation of flowing steam on bundles of tubes the heat exchange coefficient of thermal stress is proportional to the power -0.2. Concrete forms of the generalized dependencies for the process of condensation of the steam flowing on tube bundles were given:
For the bundle $\psi = 0.436$

$$\alpha = B(w^2)^{0.16}\pi^{-0.14}H^{-0.2}$$

for the bundle $\psi = 0.532$

$$\alpha = A_H e^{4.1.10^{-st}} p_\circ (\gamma w^2)^{0.07}\pi^{-0.286}H^{-0.2}$$

the 5 upper rows $A_n = 17\ 800$; the remaining rows $A_N = 16\ 800$;
for the single vertical row

$$\alpha = 32\ 200H^{-0.4}(\gamma w^2)^{0.086}\pi^{-0.286}H^{-0.2}$$

The laws determined by the author for the condensation process of liquid pure steam on tube bundles of different geometrical

The Investigation of the Influence Exercised by Gas Parameters and the Depth of the Tube Bundle on the Condensation Process of Moving Steam 57-28-6-19/34

characteristics are confirmed by all experiments carried out by various research workers under various conditions. There are 7 figures and 4 references, 3 of which are Soviet.

ASSOCIATION: Kotloturbinnyy institut im. I. I. Polzunova, Leningrad (Leningrad, Boiler Turbine Institute imeni I. I. Polzunov)

SUBMITTED: July 11, 1957

1. Steam—Condensation 2. Heat exchangers—Performance
3. Heat transfer—Mathematical analysis

Card 3/3

RACHKO, V.A.

Effect of the geometrical characteristics of a tube bundle on the condensation of steam from a steam and air mixture in a vacuum. Zhur. tekh. fiz. 30 no.7:868-880 Jl '60. (MIRA 13:8)

1. Kotloturbinnyy institut im. I.I. Polzunova, Leningrad.
(Steam) (Thermodynamics)

RACHKO, V.A., kand.tekhn.nauk

Steam condensation from a steam and air mixture in vertical canals. Energomashostroenie 8 no.11:24-28 N '62. (MIRA 16:1)

(Boilers) (Steam—Thermal properties)

RACHKO, V.A., kand.tekhn.nauk

Effect of air content on heat emission during the condensation of steam. Energomashinostroenie 11 no.[illegible] Ag '65. (MIRA 18:10)

L 28335-66 EWT(m)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6013074 SUB CODE: UR/0048/66/030/004/0661/0663

47
46
B

AUTHOR: Valbis, Ya. A.; Graveris, V. Ye.; Rachko, Z. A.

21

ORG: None

TITLE: Luminescence of localized exciton-like excitations in alkali halide crystals /Report, Fourteenth Conference on Luminescence held in Riga 16-23 September 1965/

III

SOURCE: AN SSSR. Izvestiya, Seriya fizicheskaya, v. 30, no. 4, 1966, 661-663

TOPIC TAGS: crystal phosphor, luminescence, alkali halide, potassium bromide, luminescence center, exciton, mixed crystal, excited state

ABSTRACT: In the case of real alkali halide crystals containing intrinsic and/or impurity microdefects there are commonly observed secondary absorption bands on the long wavelength slope of the first "true" exciton band. Presumably the absorption gives rise to pseudolocal excitations in the vicinity of microdefects; although not unlike excitons, these excitations lack mobility and are therefore referred to by the authors as "localized exciton-like excitations". There have been several studies of such and similar excitations, but little attention has been given to the subsequent fate of these exciton-like excitations. To determine whether (and if so under what conditions) the near-impurity excitations give rise to "intrinsic" luminescence it is necessary to use ions that form such excitations but do not themselves have electronic

Card 1/2

L 28335-66

ACC NR: AP6013074

transitions in the frequency region of interest. Alkali metal ions are suitable. Earlier the authors studied specimens of the KBr-NaBr system with less than 1 mole percent of the second component. It was shown (Ya.A.Valbis, Optika i spektroskopiya, 20, No. 6, 1966) that introduction of the impurity (Na) ions gives rise to new luminescence bands under x ray and optic stimulation. Similar results have been reported by other investigators for CsI crystals. It was assumed that the impurity produces D absorption bands; these are located close to the strong exciton absorption bands and hence are difficult to detect. Comparative studies were carried out on KBr-NaBr and KBr-KI mixed crystals; further comparison was made with the data on KBr with anionic vacancies, as reported by R.Onaka and I. Fujita (Quantit. Spectrosc. Radiat. Transfer, 2, 599, 1962). These systems are characterized by similar excitation, luminescence and temperature quenching curves. This indicates that the same mechanism obtains in the all these systems. The author is grateful to I.K.Vitol for guidance in the work. Orig. art has: 2 figures.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 008/ OTH REF: 023

Card 2/2 CC

L 04627-67 TCH

ACC NR: AP6032724 SOURCE CODE: UR/0308/66/000/010/0032/0033

27
26
B

AUTHOR: Rachkov, A. (Chief project designer)

ORG: none

TITLE: Estimating the static ice-breaking ability of vessels

SOURCE: Morskoy flot, no. 10, 1966, 32-33

TOPIC TAGS: icebreaker, sea ice, bending stress, shear stress

ABSTRACT: A method for estimating the static ice-breaking ability of vessels, based on an analysis of statistical data on vessels operating in ice-congested waters, is discussed.

The ice-breaking ability of vessels is gauged by the maximum thickness δ of ice which a vessel moving continuously forward is capable of crushing without impacting or racing. Its specific efficiency q is expressed as a ratio of the drive unit's horsepower N to the vessel's beam B in meters: $q = N/B$. The relationship between the specific ice-breaking ability q and the thickness δ of the crushed ice is shown, assuming that the crushed-ice channel width behind the vessel is equal to the vessel's beam. As demon-

UDC: 629.12.001.2

Card 1/2

L 0462 -67

ACC NR: AP6032724

strated, the actual values of q and δ, based on statistical operating data, lie between the values calculated; in these calculations, bending or shear stresses were assumed to be dominant. For the maximum thickness of ice which can be broken using a certain horsepower, the empirical formula

$$q = \frac{N}{B} = 0{,}55\sqrt{\delta},$$

gives very similar results. This is demonstrated by a comparison with values lying somewhat below those obtained by a formula established by the Arctic and Antarctic Scientific Research Institute. The horsepower (up to 30,000 hp) required for breaking ice of a certain thickness (up to 200 cm) can be determined from the curves given, taking the vessel's beam (up to 20 m) into consideration. Orig. art. has: 3 figures and 2 formulas. [ATD PRESS: 5097-F]

SUB CODE: 13, 11 / SUBM DATE: none

Card 2/2 JS

RACHKOV, A.A., kand.med.nauk

Fundamental library of the Kirov Academy of Military Medicine. (MIRA 14:1)
Voen.-med.zhur. no.12:84 '59.
(LENINGRAD--MEDICAL LIBRARIES)

RACHKOV, Anatoliy Antonovich; D'YAKONOV, V.F., otvetstvennyy red.; KUZNETSOV, A.D., red.; DROZHZHINA, L.P., tekhn.red.

[Principles of nautical astronomy] Osnovy morekhodnoi astronomii. Izd.2-oe, perer.i dop. Leningrad, Izd-vo "Morskoi transport," 1957. 313 p. (MIRA 11:1)

(Nautical astronomy)

ALEKSEYUK, V.V.; LITVINENKO, A.I., inzh., kapitan dal'nego plavaniya; RACHKOV, A.A.; TSURBAN, A.I.; KAMENEV, N.P., red.izd-va; DAUZHZHINA, L.P., tekhn.red.

[Manual for merchant marine boatswains] Uchebnoe posobie dlia botsmana morskogo flota. Pod red. A.I. Litvinenko. Leningrad, Izd-vo "Morskoi transport," 1958. 359 p. (MIRA 12:2)
(Merchant seamen)

PHASE I BOOK EXPLOITATION SOV/3893

Rachkov, Anatoliy Antonovich

Prakticheskaya morekhodnaya astronomiya (Applied Nautical Astronomy) Leningrad, Sudpromgiz, 1960. 126 p. Errata slip inserted. 7,500 copies printed.

Scientific Ed.: F.N. Murmanskiy; Ed.: R.D. Nikitina; Tech. Ed.: P.K. Tsal.

PURPOSE: This book is intended for navigators and students at naval training schools.

COVERAGE: The book contains basic information on nautical astronomy. It describes theoretical methods and practical problems for determining the position of a ship by astronomical methods, and for determining general compass corrections, and the instants of sunrise and sunset. Instruments for astronomical measurements and calculations are also described. No personalities are mentioned. There are 9 Soviet references.

Card 1/5

ALEKSEYUK, Vasiliy Vasil'yevich; LITVINENKO, Aleksandr Ivanovich, kapitan dal'nego plavaniya, dots.; RACHKOV, Anatoliy Antonovich; TSURBAN, Apollin Ivanovich; STUPAKOVA, L.A., red.; TIKHONOVA, Ye.A., tekhn. red.

[Manual for a boatswain in the merchant marine] Uchebnoe posobie dlia botsmana morskogo flota. [By] V.V.Alekseiuk i dr. Izd. 2., perer. i dop. Moskva, Izd-vo "Morskoi transport," 1963. 402 p. (MIRA 17:3)

RACHKOV, A.S., inzh.; SERGEYEV, V.I., inzh.

Pusher tugs for use on inland waterways. Sudostroenie 24 no.9:1-6 S '58. (MIRA 11:11)
(Tugboats)

RACHKOV, A.S., inzh.

Ferry for the Caspian Sea. Sudostroenie no.7:1-5 Jl '60.
(MIRA 13:7)

(Caspian Sea--Train ferries)

RACHKOV, A.S., inzh.

Ferry with a 185-ton carrying capacity. Sudostroenie 25 no.10:16 0'60. (MIRA 13:10)

(Ferries)

RACHKOV, A.S., inzh.

Distribution of compressed air in shaft sinking. Shakht.stroi. 6 no.4:27 Ap '62. (MIRA 15:4)
(Shaft sinking)

RACHKOV, B.

Limitation of oil imports in the United States. Vnesh. torg. 39 no.6:34-38 '58. (MIRA 12:9)
(United States--Petroleum industry) (United States--Import quotas)

RACHKOV, B.

Western press fabrications about Soviet oil exports. Vnesh. torg. 29 no.8:44-46 '59. (MIRA 12:11)
(Petroleum industry) (Russia--Commerce)

RACHKOV, B.

Demise of "British Aluminium". Vnesh. torg. 29 no.11:25-27 '59.
(MIRA 12:12)

(Great Britain--Aluminum industry)
(Great Britain--Investments, American)

RACHKOV, B.

The coal war continues. Vnesh. torg. 29 no.12:34 '59.
(MIRA 12:12)

(Europe, Western--Commerce--United States)
(United States--Commerce--Europe, Western)
(Coal trade)

RACHKOV, B.

The petroleum cartel retreats. Vnesh.torg 30 no.5:30-34 '60. (MIRA 13:5)
(Petroleum industry)

RACHKOV, B.

The oil empire is nervous. Vnesh.torg. 42 no.7:40-43 '62. (MIRA 15:7)

(Petroleum industry)

UGRYUMOV, V.M., prof., otv. red.; BEKHTEREVA, N.P., doktor med. nauk, red.; VOLKOV, A.N., red.; DOLGOPOLOVA, G.A., red.; NIKIFOROV, B.M., red.; RACHKOV, B.M., red.; RASTORGUYEV, A.V., red.; TELEGINA, A.A., red.; YATSUK, S.L., red.; LEVIN, M.V., tekhn. red.

[Proceedings of the Fourth Joint Scientific Conference of Young Neurosurgeons] Chetvertaia ob"edinennaia nauchnaia konferentsiia molodykh neirokhirurgov, trudy. Leningrad. Medgiz. 1961. 414 p. (MIRA 15:6)

1. Ob"yedinennaya nauchnaya konferentsiya molodykh neyrokhirurgov, 4th. 2. Leningradskiy neyrokhirurgicheskiy institut im. prof. A.L. Polenova (for Volkov, Dolgopolova, Yatsuk, Rachkov). 3. Laboratoriya operativnoy neyrokhirurgii Leningradskogo neyrokhirurgicheskogo instituta imeni prof. A.L.Polenova (for Nikiforov, Telegina). 4. Kafedra operativnoy khirurgii pediatricheskogo meditsinskogo instituta, Leningrad (for Nikiforov, Telegina, Yatsuk). 5. Direktor Leningradskogo nauchno-issledovatel'skogo neyrokhirurgicheskogo instituta im. prof. A.L.Polenova (for Ugryumov).

(NERVOUS SYSTEM--SURGERY)

L 13292-66 EWT(m)/EWP(j) RM

ACC NR: AP6000325 (A) SOURCE CODE: UR/0286/65/000/021/0012/0012

INVENTOR: Volkova, L. I.; Zaitova, A. Ya.; Ioakimis, A. A.; Mochal'nikova, T. P.; Nazarova, L. Yu.; Nazarov, V. I.; Pryakhina, M. S.; Petrov, V. N.; Rachkovskiy, E. E.; Savel'yev, A. P.; Syrova, A. A.; Tikhanovskaya, S. G.

32
B

ORG: none

TITLE: A method for producing normal butanol by synthesis from ethyl alcohol. Class 12, No. 175929 [announced by the Bashkir Scientific Research Institute for Petroleum Refining (Bashkirskiy nauchno-issledovatel'skiy institut po pererabotke nefti)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 12

TOPIC TAGS: catalysis, butanol, ethyl alcohol

ABSTRACT: This Author's Certificate introduces: 1. A method for producing normal butanol by synthesis from ethyl alcohol on a catalyst. The process is done in a single stage by using a catalyst consisting of aluminum oxide, magnesium oxide, silicon oxide and a salt or oxide of an alkali metal. 2. A modification of this

UDC: 66.097.3 : 547.264.07

Card 1/2

L 13292-66 O

ACC NR: AP6000325

method in which the catalyst contains from 5 to 80 % aluminum oxide, from 95 to 10 % magnesium oxide, from 0 to 50 % silicon oxide and from 0 to 5 % of a salt or oxide of an alkali metal.

SUB CODE: 07/ SUBM DATE: 11Apr63/ ORIG REF: 000/ OTH REF: 000

jw

Card 2/2

RACHKOV, B.M.

Clinical aspects and treatment of epilepsy specified by arterio-venous aneurysm of cerebral vessels. Zhur. nevr. i psikh. 64 no.11: 1641-1642 '64. (MIRA 18:6)

1. Nevrokhirurgicheskoye otdeleniye (zaveduyushchiy B.M. Rachkov) Ivanovskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach A.A. Cheyda).

BYAKOV, V.P.; MARKOVIN, A.P.; RACHKOV, I.M.; NOSHCHINSKIY, V.R.; IGNAT'YEV, Ye.I.

Informational reports. Mat.Kom.med.geog.Geog.ob-va SSSR pt.1:58-76 '61. (MIRA 15:10)

(MEDICAL GEOGRAPHY)

RACHKOV, I.M.

Some materials on the medico-geographical features of Luga District, Leningrad Province. Geog. sbor. no.14:73-85 '61. (MIRA 15:1)
(LUGA DISTRICT--MEDICAL GEOGRAPHY)

RACHKOV, L.

First link of the collective. Sovshakht. 10 no.10:43 O '61.
(MIRA 14:12)

1. Professional'nyy gruppovyy organizator shakhty imeni Gor'kogo, tresta Nesvetayantratsit.
(Trade unions)
(Coal miners)

RACHKOV, L.D.

Interrelationships of plants in a natural community. Trudy Otd. fiziol. i biofiz. rast. AN Tadzh. SSR 1:143-155 '62. (MIRA 16:3)
(Carbon isotopes) (Plant communities)

RACHKOV, N., kand.tekhn.nauk; SHPRENGEL', A.

Economical experimental farm on the "Golovkovo" State Farm. Sel'. stroi. no.10:3-5 O '62. (MIRA 15:11)

1. Zamestitel' direktora Nauchno-issledovatel'skogo instituta sel'skogo stroitel'stva (for Rachkov).
2. Nachal'nik proyektno-konstruktorskogo byuro Nauchno-issledovatel'skogo instituta sel'skogo stroitel'stva (for Shprengel').

(Dairy barns)

RACHKOV, N.F., kand. tekhn. nauk; DYATLOVA, V.P., kand. tekhn. nauk;
CHERENKOVA, G.M., inzh.

Surface finishing of asbestos-cement slabs with silicate paints. Trudy NIIAsbesttsementa no.8:168-172 '58. (MIRA 16:8)

RACHKOV, N.F., kand.tekhn.nauk; DYATLOVA, V.P., kand.tekhn.nauk

Possibilities for producing roofing and facing tiles using sand and soluble glass. Stroi.mat. 5 no.2:34-35 F '59. (MIRA 12:2)

(Tiles) (Sand) (Soluble glass)

RACHKOV, N.F., kand.tekhn.nauk; KRUTOV, P.I., kand.tekhn.nauk

Local materials as wall filler for rural buildings with precast concrete framing elements. Stroi. mat. 7 no.7:6-9 Jl '61. (MIRA 14:7)

(Walls) (Building materials)

LISOVICH, Yu.Yu.; RACHKOV, V.I.; RADOMYSEL'SKIY, M.I.; SHIFRIN, I.A.

Concentration and specialization of the production of wooden containers. Der. prom. 14 no.6:16 Je '65. (MIRA 18:7)

SHEBYT'KH, I.M., DOBOLEV, P.K., kand. tekhn. nauk; KOLOBKO, M.I., kand. tekhn. nauk; KOZIN, G.N.; GUL'YAEV, G.P.; PACHKOV, V.N.

Continuous measurement of metal temperature and carbon content control in a converter during scavenging. Avtom. i prib. no.1:12-14 Ja-Mr '64. (MIRA 18:8)

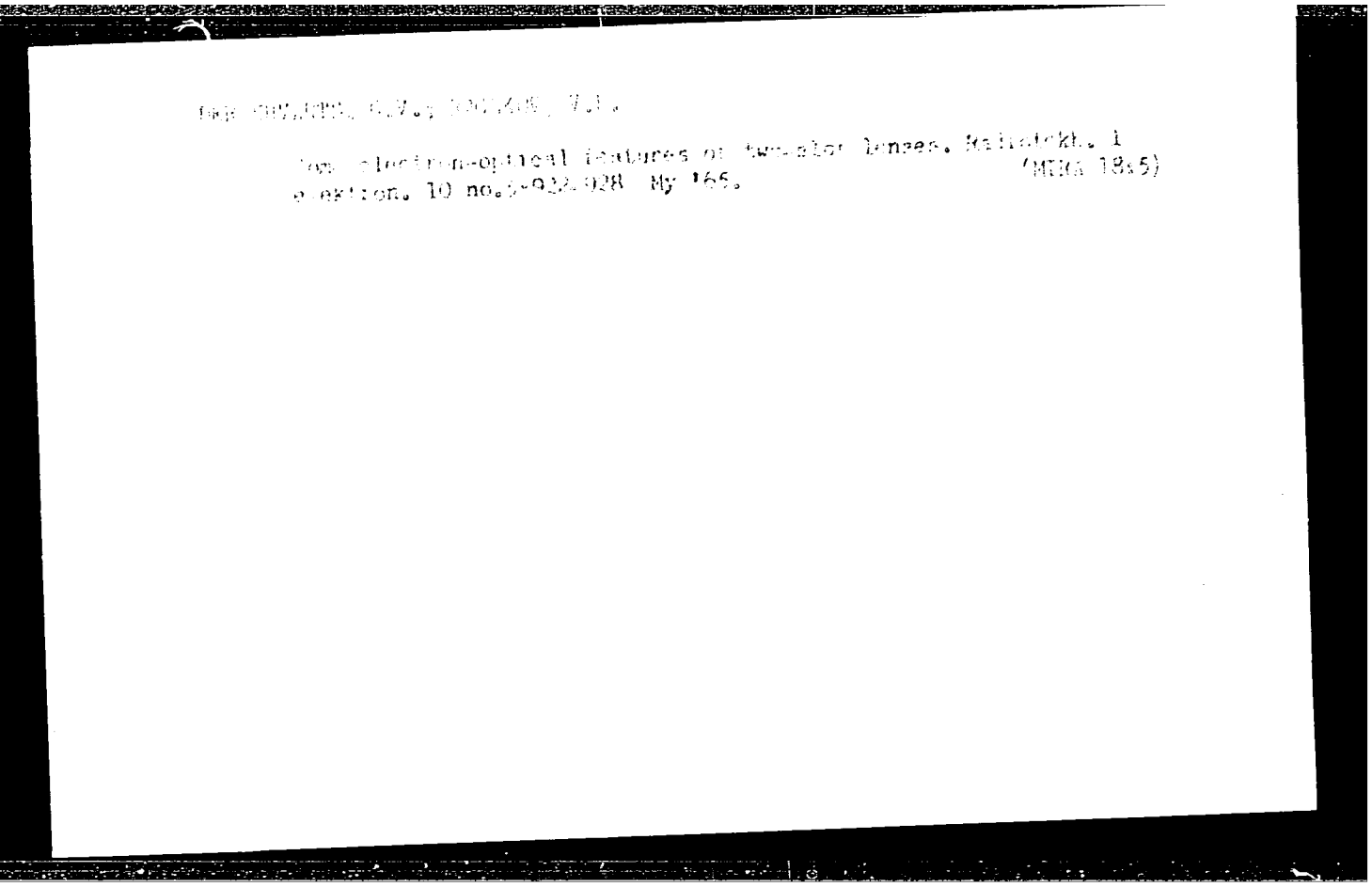
DER-SHVARTS, G.V.; RACHKOV, V.P.

Design of magnets for the excitation of lenses of magnetostatic electron microscopes. Izv.AN SSSR.Ser.fiz. 25 no.6:676-679 Je '61. (MIRA 14:6)

(Electron microscope)

DER-SHVARTS, G.V.; RACHKOV, V.P.

Study of the distortion of the forms of electronograms originating in microdiffraction. Radiotekh. i elektron. 9 no.8:1476-1481 Ag '64. (MIRA 17:10)



[illegible] G.V., [illegible], V.I.

[illegible] electron-optical features of two-slot lenses. Kolichkh. i
[illegible]. IO no.2-032-028 My '65. (MIRA 18:5)

BERMAN, M.L.; RACHKULIS, V.I.

Luminescence method for checking rubber mixtures. Kauch. i rez. 16 no.12:33-36 D '57. (MIRA 11:3)

1. Tashkentskoye otdeleniye nauchno-issledovatel'skogo instituta kabel'noy promyshlennosti.
(Rubber) (Luminescence)

BACHKOV, A. A.

Osnovy morskoi astronomii [Principles of navigation astronomy]. Moskva, Morskoi transport, 1952. 296 p.

SO: Monthly List of Russian Accessions, Vol 6 No 4, July 1953

RACHKOV, A.A.

SKUBKO, R.

"Basic principles of nautical astronomy". A.A. Rachkov. Reviewed by R. Skubko. Mor. i rech. flot 14 no. 7:32-3 of cover Jl '54. (MLRA 7:7)
(Nautical astronomy) (Rachko, A.A.)

RACHKOV, A.V.

Work with Czechoslovakian specialists. Izobr. v SSSR 1 no.6:30-31 D '56. (MLRA 10:4)
(Czechoslovakia--Relations (General) with Russia)
(Russia--Relations (General) with Czechoslovakia)

RACHKOV, A. N.

Delegation of the Committee in East Germany. Izobr. v SSSR 2 no.4: 38-39 Ap '57. (MIRA 10:6)
(Germany, East--Patent laws and legislation)

RACHKOV, N. F. Kand. tekhn. nauk st. nauchn. sotr.

Tsentral'nyy nauchno-issledovatel'skiy institut promyshlennykh sooruzheniy (TSNIPS)

SOVERSHENSTVOVANIYE TEKHNOLOGII DYRCHATOGO I SPLOSHNOGO KIRPICHA. ISSLEDOVANIYE VLIYANIYA VDA I ZERNOVOGO SOSTAVA OTOSHCHITELYA NA SVOISTVA SPLOSHNOGO I DYRCHATOGO KIRPICHA Page 103

RACHKOV, Petr Alekseyevich; KOLCHENKO, N.I., red.; YERMAKOV, M.S., tekhn. red.

[Science and social progress] Nauka i obshchestvennyi progress. Moskva, Izd-vo Moskovskogo univ., 1963. 329 p. (MIRA 16:9)

(Science and civilization)

RACHKOV, V.K.; KHORBENKO, I.G., kapitan 2 ranga, red.; KOKINA, N.N., tekhn. red.

[Marvellous crystals] Chudesnye kristally. Moskva, Voenizdat, 1962. 72 p. (MIRA 16:3)
(Crystals) (Piezoelectric substances)

RACHKOV, V.N.

The effect of molds on the buds of grape. P. N. Kostiuk and V. M. Rachkov. *Vinodelie i Vinogradarstvo S.S.S.R.* 9, No. 10, 21-[illegible]. —During the winter period many of the grape buds are damaged by *Mucor racemosus*, *Cladosporium herbarum*, *Macrosporium vitis*, *Fusarium cavantium*, and *Coniothecium macrosporum*. Spraying of vine bushes before wintering with 1% soln. of Bordeaux mixt. (I), 1% soln. of iron vitriol (II), or 0.25% soln. of Et mercury phosphate (III) was used to prevent the damage. The I soln. was without noted effect; soln. II was the most effective. By increasing the concns. of solns. II and III to 5 and 0.5%, resp., better results are expected. E. Wierbicki

RACHKOVA, A. A.

RACHKOVA, A. A. -- "Biological and Agricultural Features of Cattle under Conditions Obtaining in the Karelo-Finnish SSR." Min Higher Education USSR. Karelo-Finnish State U, Chair of Darwinism and Genetics. Petrozavodsk, 1955. (Dissertation for the Degree of Candidate of Biological Sciences.)

SO: Knizhnaya letopis', No. 4, Moscow, 1956

RACHKOVA, A.B.

Results of five years of malaria control. Med.paraz. i paraz. bol.24 no.3:209 Jl-S '55. (MLRA 8:12)

1. Zav.protivomalyariynoy stantsiyey gor. Kzyl-Kiya Kirgizskoy SSR.
(MALARIA, prevention and control, in Russia)

RACHKOV, G. G.

SOV/106-59-2-10/11

AUTHOR: None given

TITLE: Authors' Certificates (Avtorskiye svidetel'stva)

PERIODICAL: Elektrosvyaz', 1959, Nr 2, p 78 (USSR)

ABSTRACT: S.P. Khlebnikov and P.A. Anikeyev - "A Method of Fixing Magnetic Heads in Recording Equipment Using a Rigid Carrier"; G.V. Braude - "A Method for Compensating for Irregular Film Movement in Travelling Beam Tube Systems"; M.G. Garb and V.M. Sigalov - "A Method of Centralised Synchronisation"; D.M. Khanukayev - "A Method of Synchronisation of Colour Television Receivers with Sequential Transmission of Colours by Fields"; B.I. Strelkov - "Trigger Apparatus"; A.I. Sapgir - "A Method of Extraction of Pulses from Pulse Trains"; N.N. Korovyanskiy - "A Method for Reducing the Time of Ascertaining the Transfer Characteristic of a Television Channel"; Karl-Heinz Geistrad and Heinz Lemann (German Democrat Republic) - "Apparatus for Recording Television Talks"; S.I. Yevtyanov - "A Method of Increasing the Stability Factor of an Oscillator (Regime)"; V.M. Zhukov and G.G. Rachkova - "Apparatus for Obtaining Frequency-modulated Pulses"; Yu.I. Serebryakov - "A Method of Cancellation of Constant Radio-echoes"; L.F. Abrămova and M.Ye. Gertsenshteyn - "Co-axial Filters with Weak Coupling";

Card1/2

RACHKOVA, L.

In the presidium and scientific institutions of the Academy of Sciences of the Kazakh S.S.R. Vest. AN Kazakh. SSR 11 no.9:126-128 S '54. (MIRA 8:2)
(Kazakhstan--Agricultural research)(Kazakh literature)

RACHKOVA, L.P.

USSR/ Miscellaneous - Book review

Card 1/1 Pub. 123 - 11/12

Authors : Mozgunova, E. A., and Rachkova, L. P.

Title : Discussion of the book, "The History of the USSR Nations During the Period of Socialism"

Periodical : Vest. AN Kaz. SSR 6/123, 96-99, June 1955

Abstract : A review of the subject book is presented.

Institution : .....

Submitted : .....

ZEMSKOV, P.F., inzhener; KOLESNIK, P.A., inzhener; RACHKOVA, L.V., redaktor.

[Use and repair of automobile tires in motor pools] Ekspluatatsiia i remont avtomobil'nykh shin v avtokhoziaistvakh. Izd.2.,perer.i dop. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1953. 139 p.
(MLRA 7:4)
(Tires, Rubber)

ANOKHINA, L.I., kand.med.nauk; RACHKOVA, N.A.

Multiple calcinosis of the skin and subcutaneous tissue. Vrach. delo 4:144-145 Ap '62. (MIRA 15:5)

1. Klinika gospital'noy terapii (zav. - prof. P.A.Yasnitskiy) Permskogo meditsinskogo instituta.
(SKIN--DISEASES)

SOV/137-58-12-24323

Translation from: Referativnyy zhurnal Metallurgiya, 1958, Nr 12, p 56 (USSR)

AUTHOR: Rachkova, S. N.

TITLE: Operational Experience at the Dust and-gas Laboratory of the Chimkent Lead Plant (Opyt raboty pylegazovoy laboratorii Chimkentskogo svintsovogo zavoda)

PERIODICAL: Sb materialov po pyleulavlivaniyu v tsvetn metallurgii Moscow, Metallurgizdat, 1957. pp 436-446

ABSTRACT: Reports are presented on the operation of the dust-and-gas laboratory (DL) of the Chimkent Lead Plant in monitoring the gas-cleaning equipment (GE) of that plant. A brief description of the GE of the plant is presented. Starting in 1951, the DL has been doing systematic round-the-clock monitoring of the major GE at that plant, periodically inspecting the other GE, and measuring the content of harmful impurities (Pb) in the air of the manufacturing installations and in the plant area. Gintsvetmet apparatus (including semiautomatic equipment) is used in measuring the dust content of the gases. Data are presented on the methods used in dust measurements. Indices of the operation of various GE at the plant in 1955 are presented. In

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Operational Experience at the Dust-and-gas Laboratory of the Chimkent Lead (cont.)

addition to dust samplings and air analyses, the DL conducts periodic analysis of the gas-fueled shaft furnaces and determines the degree of dispersion of the dust (by Tovarov's method). A description of the dispersion of the dust from various sources is presented. Data are presented on the work of the DL in monitoring the ventilating installations of the plant. The desirability of using the semiautomatic Gintsvetmet equipment is noted.

G.G.

GORDON, Grigoriy Mikhaylovich; PEYSAKHOV, Isaak L'vovich; DERGACHEV, N.F., kand. tekhn.nauk, retsenzent; RACHKOVA, S.N., retsenzent; ARKHANGEL'SKAYA, M.S., red.; KLEYNMAN, M.R., tekhn. red.

[Control of dust collecting equipment; dust and gas measurements] Kontrol' pyleulavlivaiushchikh ustanovok; pylegazovye zamery. Izd. 2., perer. i dop. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 308 p. (MIRA 14:5)

1. Nachal'nik pylevoy laboratorii Chimkentskogo svintsovogo zavoda (for Rachkova)

(Dust collectors)

RACHKOVITCH, DANIEL

Rachkovitch, Daniel. Le potentiel d'un corps élastique sous forme diadique. Acad. Serbe Sci. Publ. Inst. Math. 1, 136–142 (1947).

Source: Mathematical Reviews, Vol 10 No. 6

Rachkovitch, Daniel

Rachkovitch, Daniel. Forme dyadique des équations fondamentales de la théorie d'élasticité. Acad. Serbe Sci. Publ. Inst. Math. 2, 248–256 (1948). (French. Serbian summary)

This paper contains textbook material on elasticity, developed in a dyadic notation. *C. Truesdell.*

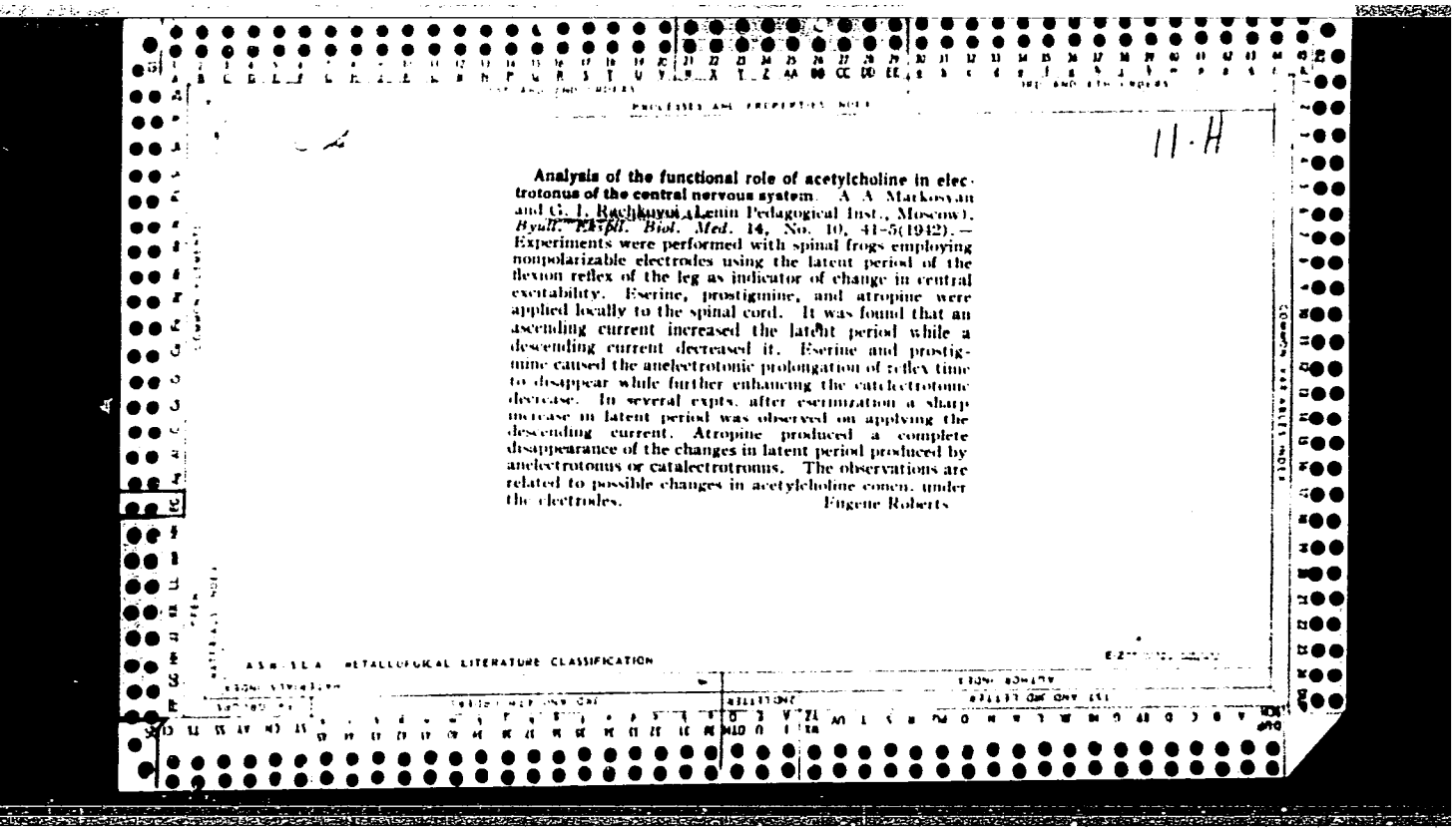
Source: Mathematical Reviews, Vol 10 No.6

Rachkovitch, D.

Rachkovitch, D. Les équations fondamentales de la théorie d'élasticité (en interprétation géométrique) sous forme vectorielle. Godisnjak Tehn. Fak. Univ. Beograd. 1946–47, 9–12 (1949). (Serbian. French summary)

RACHKOVITCH, D.: Fundamental Equations of the Theory of Elasticity (Geometric Interpretation in the Vectorial Form)

Vol



11-H

Analysis of the functional role of acetylcholine in electrotonus of the central nervous system. A. A. Markosyan and G. I. Rachkuyoi (Lenin Pedagogical Inst., Moscow). *Byull. Eksptl. Biol. Med.* 14, No. 10, 41–5(1942).—Experiments were performed with spinal frogs employing nonpolarizable electrodes using the latent period of the flexion reflex of the leg as indicator of change in central excitability. Eserine, prostigmine, and atropine were applied locally to the spinal cord. It was found that an ascending current increased the latent period while a descending current decreased it. Eserine and prostigmine caused the anelectrotonic prolongation of reflex time to disappear while further enhancing the catelectrotonic decrease. In several expts. after eserinization a sharp increase in latent period was observed on applying the descending current. Atropine produced a complete disappearance of the changes in latent period produced by anelectrotonus or catalectrotonus. The observations are related to possible changes in acetylcholine concn. under the electrodes.

Eugene Roberts

RACHKOVSKAYA, I. A.

Generalization of the experience in the production and consumption of chemical woodpulp. Trudy VNIIB no.47:166-179 '61.
(MIRA 16:1)

(Woodpulp industry)

YUN'YEV, G.S.; PRILEPKO, M.Ye.; Prinimali uchastiye: KRASOVSKAYA, R.I., studentka; MACHKOVSKAYA, I.V., studentka; [illegible], N.F., studentka; RESHETNIKOVA, I.L., starshiy laborant

Age-related dynamics of cardiac activity in laboratory mammals according to electrocardiographic data. Report No.1: Atrioventricular conduction interval and the heart rhythm. Vop. fiziol. chel. i zhiv. no.1:31-46 '60. (MIRA 14:10)

1. Kafedra fiziologii cheloveka i zhivotnykh Belorusskogo gosudarstvennogo universiteta imeni Lenina.
(ELECTROCARDIOGRAPHY) (ANIMALS, INFANCY OF)

VINOGRADOVA, Ye.V.; GRINEV, A.N.; DANUSEVICH, I.K.; DZIK, M.F.; DUBOVIK, B.V.; ZAKHAREVSKIY, A.S.; IL'YUCHENOK, T.Ya.; KOST, A.N.; MARTINOVICH, G.I.; MIKLEVICH, A.V.; PIL'TIYENKO, L.F.; RACHKOVSKAYA, I.V.; REUT, N.A.; TALAPIN, V.I.; TAMARINA, N.Z.; TERENT'YEV, A.P.; SHADURSKIY, K.S.

Research on pharmacological agents with prolonged hypotensive action. Vest. AMN S SSR 18 no.1:69-86 '63. (MIRA 16:2)

1. Laboratoriya spetsial'nogo organicheskogo sinteza khimicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta imeni Lomonosova i kafedra farmakologii Minskogo meditsinskogo instituta.
(HYPOTENSION) (INDOLE)

PACHKOVSKAYA, L.N.; KOZIK, B.L.

Quantitative determination of unsaturated hydrocarbons by catalytic hydrogenation. Trudy BashNII NP no.7:134-137 '64. (MIRA 17:9)

RACHKOVSKAYA, L.N.; SOBOLEV, A.S.; KOZIK, B.L.

Chromatographic analysis of the oxidation products of n-butylenes. Trudy BashNII NP no.7:137-141 '64.
(MIRA 17:9)

RACHKOVSKAYA, Ye. I.

Dissertation: "The Biology of Desert Semiscrub." Cand Biol Sci, Inst of Botany imeni V. L. Komarov, Acad Sci USSR, Moscow, Oct-Dec 53. (Vestnik Akademii Nauk, Moscow, Jun 54)

SO: SUM 318, 23 Dec 1954

RACHKOVSKAYA, E. I.

Chemical Abstracts
May 25, 1954
Soils and Fertilizers

(6)

Changes produced in takyr soils by vegetation. N. I. Bazilevich, L. E. Rodin, E. I. Rachkovskaya, R. A. Kalashnikova, and N. E. Bekatevich (V. L. Komarov Botan. Inst. and Agr. Inst., Dnepropetrovsk). *Pochvovedenie* 1953, No. 11, 28–42.—Data are presented on the compn. of various plants (tops and roots) invading takyr soils. The compn. of the soil and its aq. exts. show a favorable effect with the change in the plant associes. I. S. Joffe

RACHKOVSKAYA, Ye.I.

Biology of desert undershrubs. Trudy Bot. inst. Ser. 3 no.11:5-87 '57.
(Turkmenistan--Desert flora) (MLRA 10:8)

BORISOVA, I.V.; ISACHENKO, T.I.; RACHKOVSKAYA, Ye.I.

Forest steppe in northern Kazakhstan. Bot. zhur. 42 no.5:677-690 My '57. (MIRA 10:6)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Leningrad.
(Kazakhstan--Photogeography)

RACHKOVSKAYA, E. I.

BORISOVA, I.V.; ISACHENKO, T.I.; RACHKOVSKAYA, Ye.I.

Principal phytogeographical features of the vegetation of northern Kazakhstan. Izv.Vses.geog.ob-va 89 no.4:308-321 Jl.-Ag '57. (MIRA 10:10)

(Kazakhstan--Phytogeography)

ISACHENKO, T.I., BORISOVA, I.V., KALININA, A.V., KARAMYSHEVA, Z.V., RACHKOVSKAYA, Ye.I.

Compiling the vegetation map of northern Kazakhstan. Bot. zhur. 45 no.5:703-706 My '60. (MIRA 13:7)

1. Botanicheskiy Institut im. V.L. Komarova Akademii nauk SSSR, Leningrad.
(Kazakhstan--Phytogeography--Maps)

ISACHENKO, T.I.; RACHKOVSKAYA, Ye.I.

Principal zonal types of the northern Kazakhstan steppe vegetation. Trudy Bot. inst. Ser. 3 no.13:133-397 '61. (MIRA 15:1)
(Kazakhstan--Steppe flora)
(Botany--Classification)

BORISOVA, I.V.; ISACHENKO, T.I.; KALININA, A.V.; KARAMYSHEVA, Z.V.; RACHKOVSKAYA, Ye.I.

List of plants according to their forms of life and ecologic and phytocoenological type. Trudy Bot. inst. Ser. 3 no.13:487-514 '61. (MIRA 15:1)

(Kazakhstan--Botany--Classification)

RACHKOVSKAYA, Ye.I.

Types of vegetation complexes of the dry steppe of central Kazakhstan and their classification. Trudy Bot. inst. Ser. 3 no. 15:159-173 '63. (MIRA 17:5)

KARAMYSHEVA, Z.V.; RACHKOVSKAYA, Ye.I.

Some principles of the distribution of vegetation in the western part of the central Kazakhstan peneplain. Bot. zhur. 48 no.10:1457-[illegible] '63. (MIRA 17:1)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.

RACHKOVSKAYA, Ye.I.

"Vegetation and flora of the Tarbagatay Range" by E.F. Stepanova.
Reviewed by E.I. Rachkovskaia. Bot. zhur. 49 no.12:1812-1815
D '64 (MIRA 18:2)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.